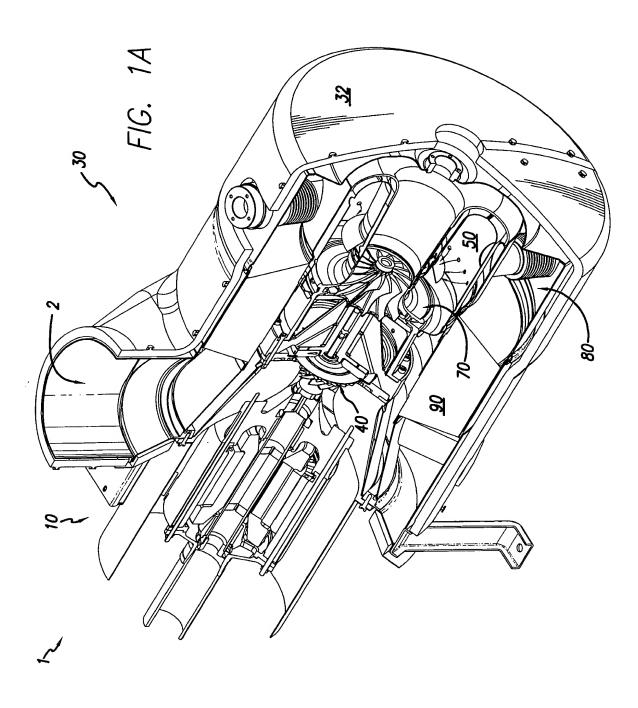


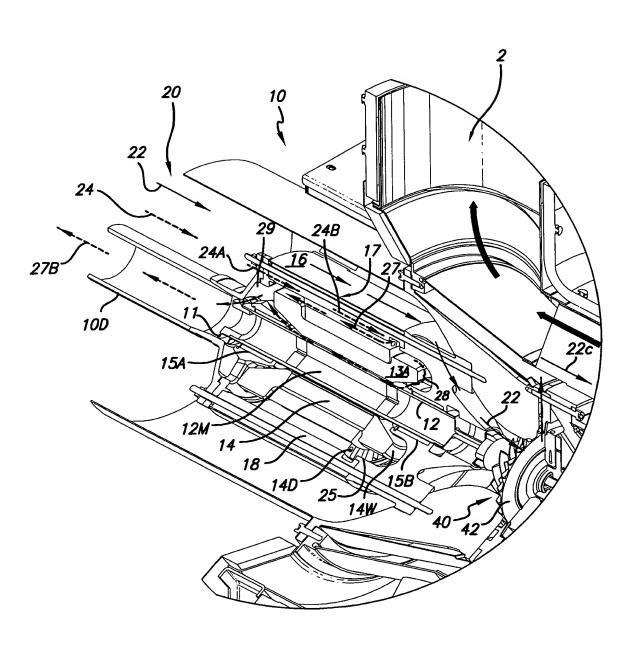
OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 1 OF 14



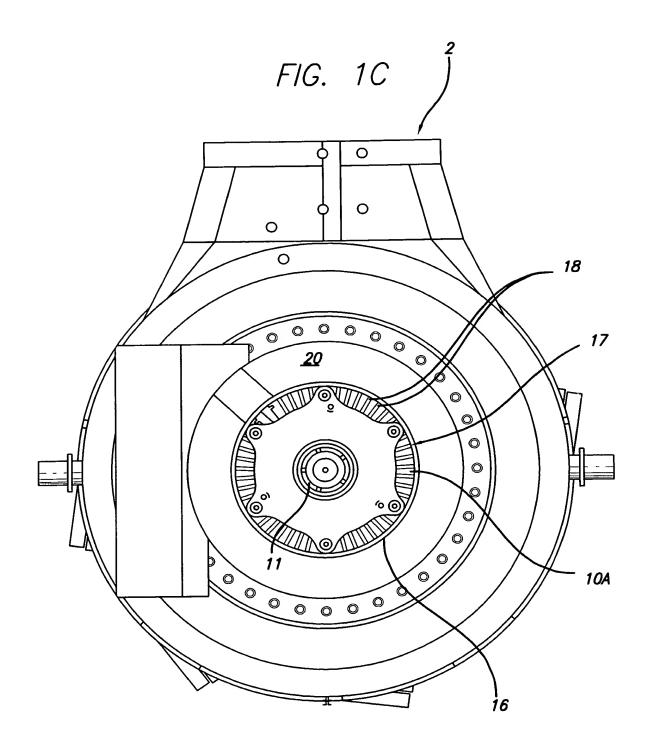


OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 2 OF 14

FIG. 1B

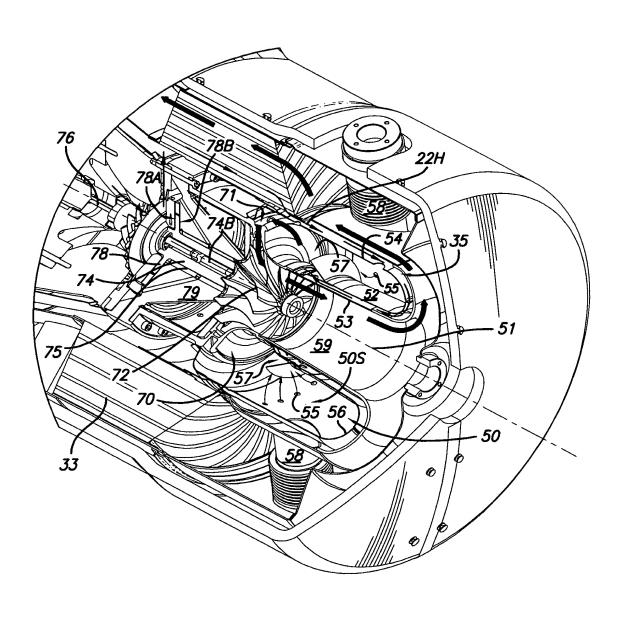


OBLON, SPIVAK, ET AL OCKET #: 213114US-22 INV: Simon R. WALL SHEET 3 OF 14

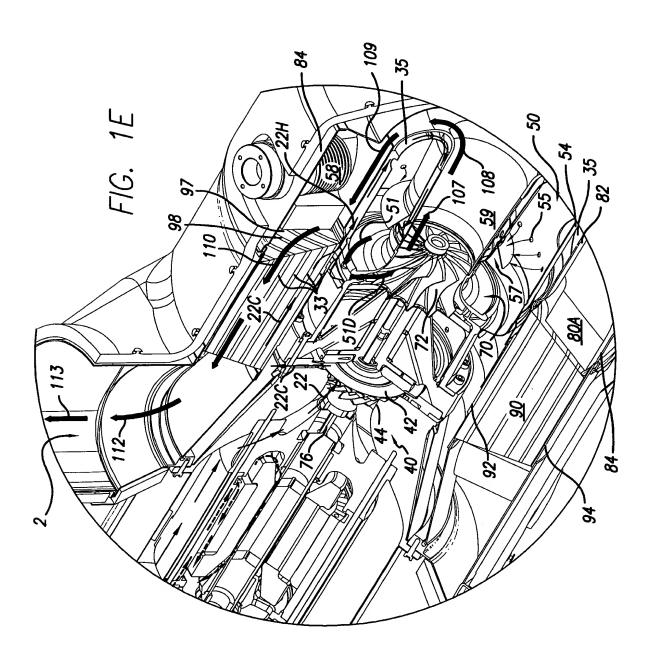


OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET <u>4</u> OF <u>14</u>

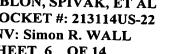
FIG. 1D

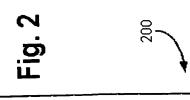


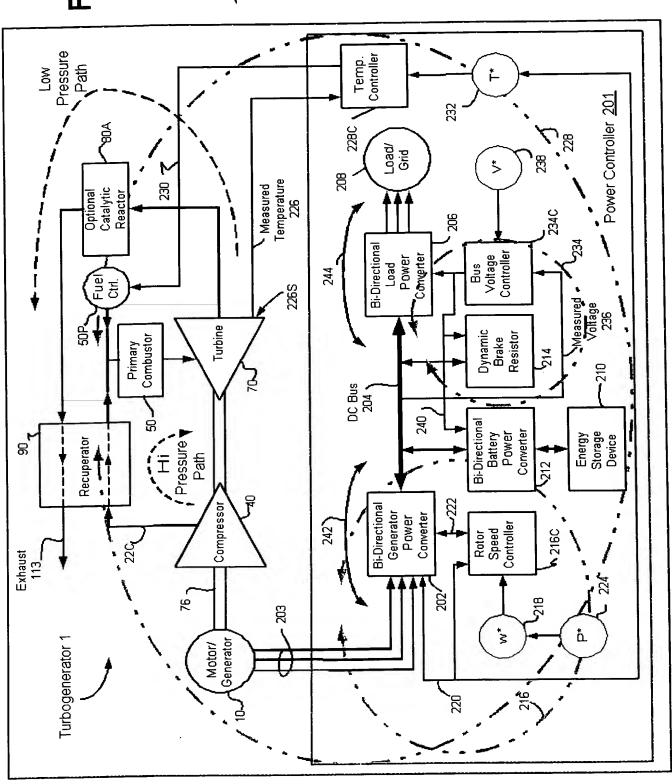
OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET <u>5</u> OF <u>14</u>



OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET <u>6</u> OF <u>14</u>







OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 7 OF 14

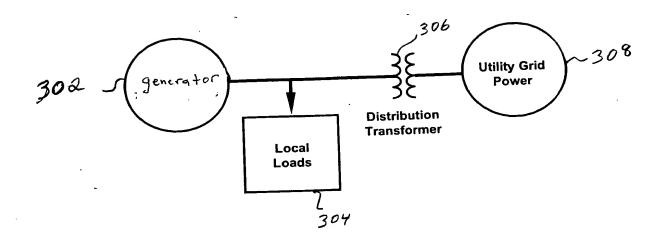


Figure 3

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 8 OF 14

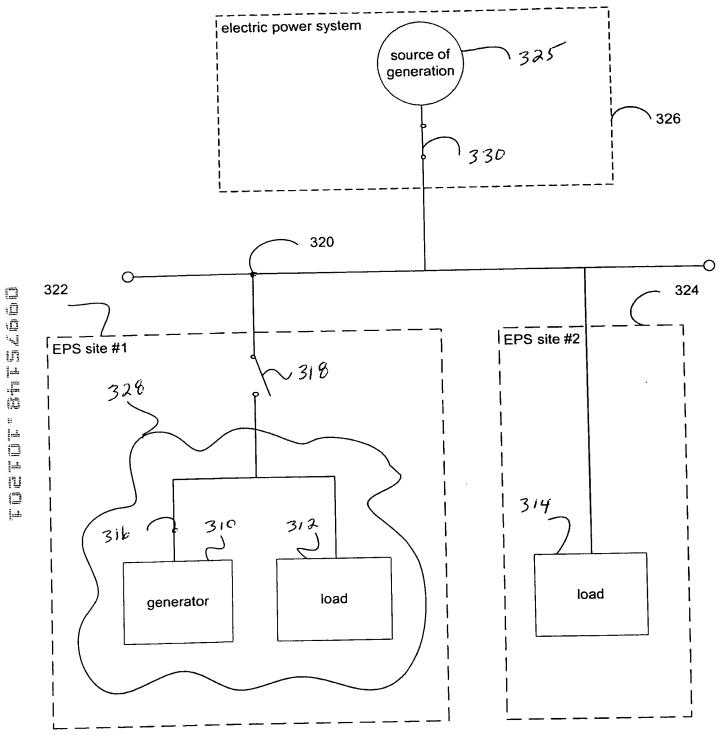


FIGURE 4

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 9 OF 14

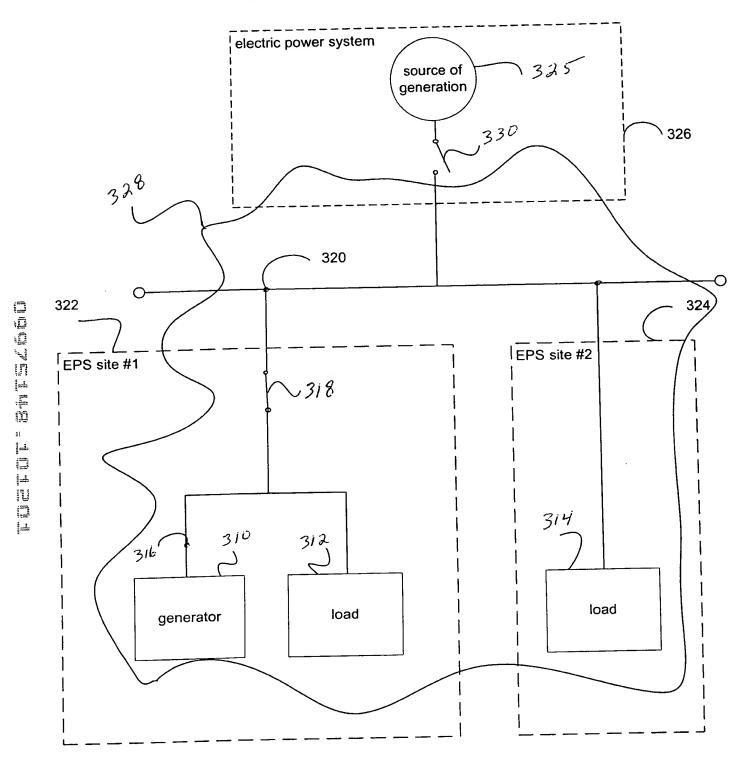
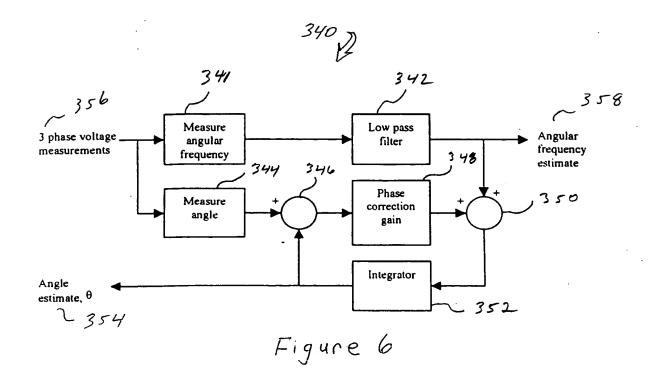
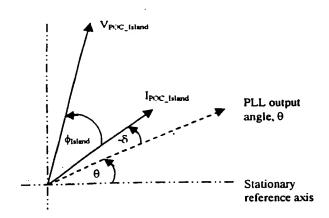


FIGURE 5

OBLON, SPIVAK, ET AL **DOCKET #: 213114US-22** INV: Simon R. WALL SHEET <u>10</u> OF <u>14</u>





θ

δ

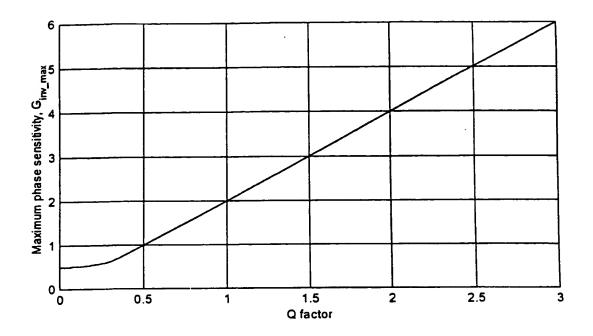
Islanded DR generator current magnitude at the POC (A) IPOC\_Island Islanded voltage magnitude at the POC (V)  $V_{POC\_Island}$ 

Impedance magnitude of the island looking into the POC ( $\Omega$ )  $Z_{lsland}$ Impedance phase-angle of the island looking into the POC (radians) φ<sub>Island</sub> Demanded real power output of the DR generator (W)  $P_{DRG}$ 

Demanded reactive power output of the DR generator (lagging is positive) (VAr) **Q**DRG Angle output from the PLL (radians)

Demanded current phase angle,  $\delta = \tan^{-1}(Q_{DRG}/P_{DRG})$  (radians)

Figure 7



Figure, 8

OBLON, SPIVAK, ET AL
DOCKET #: 213114US-22
INV: Simon R. WALL
SHEET 12 OF 14

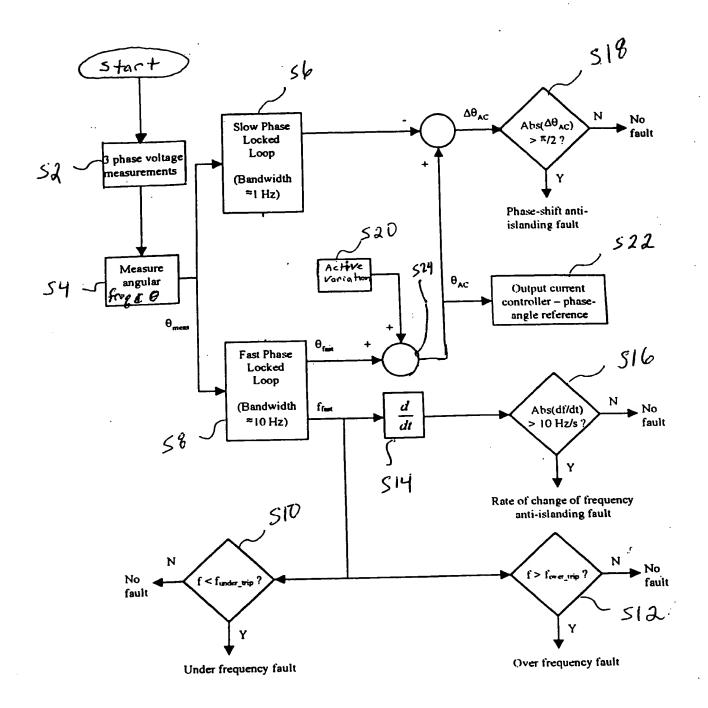


Figure 9A

OBLON, SPIVAK, ET AL **DOCKET #: 213114US-22** INV: Simon R. WALL

SHEET <u>13</u> OF <u>14</u>

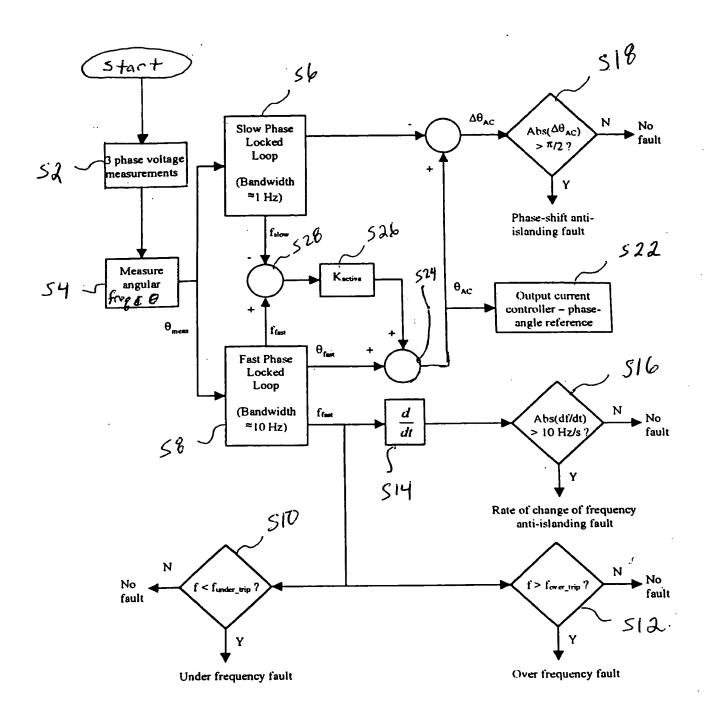
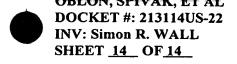


Figure 9B



١,

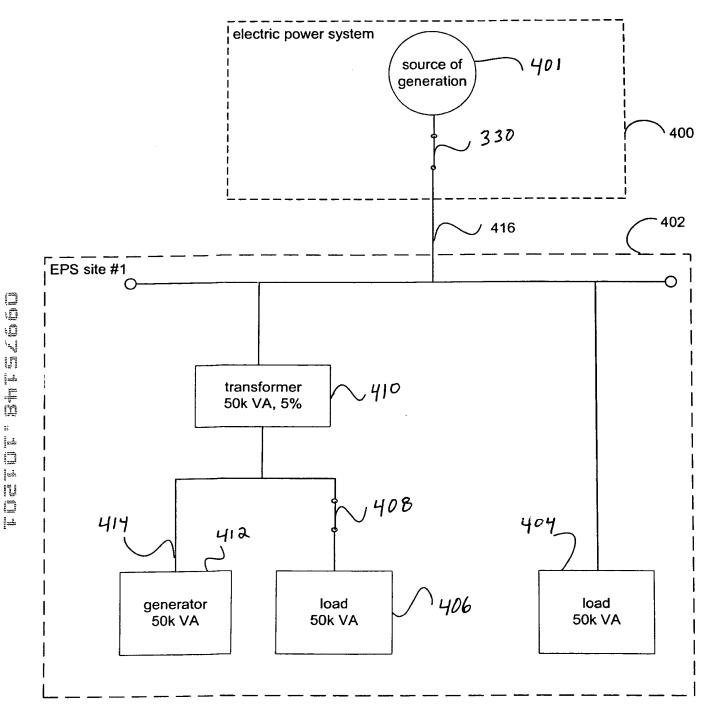


Figure 10